

## CLAIMS

1. Hinge device used to join leaf (2) of a door (1) to frame (3) thereof, including:

- at least one connecting rod (4, 5) which is mounted to rotate in relation to the frame and in relation to leaf (2).
- a carriage (7) which is mounted to move in translation widthwise in a guide (14) which is solidly connected to frame (3), and in rotation relative to the door leaf (2),

characterized in that

It comprises at least one rolling member between carriage (7) and lateral wall (15) of guide (14).

2. Device according to claim 1, characterized in that

the rolling member is a wheel (10) fitted to pivot on carriage (7) and capable of coming into contact with lateral wall (15) of guide (14).

3. Device according to claim 2, characterized in that

Wheel (10) is assembled to pivot on the same axis (8) as the rotational axis of carriage (7) in relation to leaf (2).

4. Device according to any of claims 1 to 3, characterized in that

it includes a support structure (16) that can be solidly joined to frame (3) of door (11), this structure (16) including means for adjusting its height.

5. Device according to any of claims 1 to 4, characterized in that

it includes two connecting rods (4, 5), one located in the upper part of the leaf, the other in the lower part.

6. Door (1), characterized in that

it is equipped with at least one device according to any of claims 1 to 5.